RETURN TO
E.E. INSTRUCTION MANUAL FILE

REVISED

OPERATING DATA

FOR THE

MODEL CA-5 ADAPTER

WHEN USED WITH

MODEL 539B

ROLL CHART TUBE TESTER

APPLIED PHYSICS LABORATORY
UNIVERSITY OF WASHINGTON

HICKOK

NOTE 1: The letter preceding the numerical reading in the MIN MUT COND (minimum mutual conductance) column indicates the proper setting for the FUNCTION switch.

NOTE 2: (symbol "#" on Roll Chart) Set BIAS at 40 VOLTS, press and hold down button indicated in the PRESS column while rotating BIAS control until tube strikes. The striking voltages indicated are nominal values and reference to handbook Critical Grid Characteristics of Thyratron tubes reveal appreciable variations from these average values.

NOTE 3: (symbol "★" on Roll Chart) Make emission tests, only. Good tubes will read above index mark RECTIFIERS & DIODES OK.

NOTE 4: Not applicable.

NOTE 5: Readjust BIAS VOLTS after button P4 is pressed, then read Gm.

NOTE 6: (symbol "♦" on Roll Chart) A short indication on position "A" of the SHORTS switch is normal.

NOTE 7: Not used.

NOTE 8: "Cut off" tube section NOT being tested by means of a 30 to 35 volt battery (Eveready 413, or equal). Polarity and connections are indicated in the NOTATIONS column: e. g., NOTE 8: 7-, 2+, indicates connect negative lead to pin 7 and positive lead to pin 2, of any convenient socket on the tester.

CAUTION: Disconnect battery between any change of SELECTORS.

THE HICKOK ELECTRICAL INSTRUMENT CO.

10514 DUPONT AVENUE • CLEVELAND, OHIO 44108

3200-201 REVISED

OPERATING INSTRUCTIONS

for use with

ROLL CHART TUBE TESTERS

To test tubes with the CA-5 Universal Adapter and a Roll Chart Tube Tester, proceed as follows:

a. Connect the adapter to the Roll Chart Tube Tester by inserting the test plug into the Noval socket of the Roll Chart Tube Tester.

b. Set the switches "A", "B" and "C" on the adapter to correspond with the 3-digit number in the column headed "CA5", for the tube to be tested as listed in the Operating Data book. Example: 234 is shown for 6AL11; therefore, set switch "A" on position 2, switch "B" on position 3 and switch "C" on position 4.

c. Proceed to set up the switches and controls of the Roll Chart Tube Tester as shown in the Operating Data book.

d. Place the tube to be tested into the proper socket of the adapter.

e. If the tube to be tested has a top cap, place the top cap connector of the adapter to the cap of the tube and connect the top cap connector of the Roll Chart Tube Tester on the cap connector of the test plug of the adapter cable. The proper cap connector (if any) is shown in the "NOTATIONS" column of the Operating Data book. Example: if the notation column shows "CAP = G" (grid), connect the "G" or "GRID" of the tester with the top cap connector of the Roll Chart Tube Tester to the cap connector of the test plug of the adapter cable. Note: Proper top cap connections to Models 6000 and 6005 Tube Testers are assured by setting the appropriate element selectors to position "X". Example: if "CAP = P" appears in the "NOTATIONS" column, set the plate selector to "X" regardless of the setting specified in the "SELECTORS" column.

f. Turn the Roll Chart Tube Tester on and proceed to test tube in the usual manner as shown in the manual accompanying the particular tester being used. Disregard all references to Hickok Adapter SA-11, code number 1050-177.

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CA5	BIAS	SHUNT	PUSH	MIN. MUT COND		NOTATIONS
1AD2	1.4	BS-0000-0	002	0.0	---	P5	C		CAP=P ON ADAPTER NOTES 3 & 6
2AH2	2.5	BS-0000-0	002	0.0	0	P5	G		CAP=P ON ADAPTER NOTE 3
2AS2	2.5	BS-0000-0	002	0.0	0	P5	G		CAP=P ON ADAPTER NOTE 3
2B-H5	2.0	BT-4208-0	103	0.5		P4	C	5000	PLATE VOLTS=LOW.
2CW4	2.0	BT-4208-0	103	0.5	---	P4	C	5000	PLATE VOLTS=LOW
2DS4	2.0	BT-4208-0	103	0.4	---	P4	C	4700	PLATE VOLTS=LOW
2DV4	2.0	CT-6107-0	203	1.0	---	P4	C	7500	PLATE VOLTS=LOW
2EG4	2.0	BT-4208-0	103	01.7		P4	C	3000	SET =POWER ADJUST= AT 91 V.
2N-H11	2.0	BT-4208-0	103	0.4		P4	C	4700	PLATE VOLTS=LOW.
2N-H12	2.0	CT-6107-0	203	01.0		P4	C	7500	PLATE VOLTS=LOW.
3AT2	3.0	BS-0000-0	002	0.0	17	P5	G		CAP=P ON ADAPTER NOTE 3
3AW2	3.0	CR-0000-0	001	0.0	20	P5	G		CAP=P ON ADAPTER NOTE 3
3BL2	3.0	BS-0000-0	002	0.0	12	P5	G		CAP=P ON ADAPTER NOTES 3 & 6
3BM2	3.0	BS-0000-0	002	0.0	12	P5	G		CAP=P ON ADAPTER. NOTE 3
3BS2	3.0	CR-0000-0	001	0.0	12	P5	G		CAP=P ON ADAPTER. NOTES 3+6.
4HA7	4.3	BT-9204-0	203	2.2	---	P4	D	2050	TRIODE NO.1
	4.3	BV-4203-0	045	2.0	---	P4	E	375	TRIODE NO.2
4HC7	4.3	BT-9204-0	203	0.6	---	P4	C	2850	TRIODE NO.1
	4.3	BV-4203-0	045	2.4	---	P4	E	375	TRIODE NO.2
5BC3	5.0	BT-0900-0	000	0.0	85	P3	G		PLATE NO.1 NOTES 3 & 6
	5.0	BT-0500-0	000	0.0	83	P3	G		PLATE NO.2 NOTES 3 & 6
5HA7	5.0	BT-9204-0	203	0.0	---	P4	D	2050	TRIODE NO.1
	5.0	BV-4203-0	045	2.0	---	P4	E	375	TRIODE NO.2
5HC7	5.0	BT-9204-0	203	0.6	---	P4	C	2850	TRIODE NO.1
	5.0	BV-4203-0	045	2.4	---	P4	E	375	TRIODE NO.2
5U9	6.3	FW-3782-4	000	1.5	---	P4	C	4400	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	4.5	---	P4	C	3150	TRIODE SECT.
5V9	5.0	FW-3741-2	000	1.0	---	--	E	700	HEPTODE SECT. HOLD DOWN P1 AND PRESS P4. USE HICKOK ADAPTER SA-11 CODE NO.1050-177
	5.0	FW-8109-0	100	2.4	---	P4	C	3150	TRIODE SECT.
5X9	6.3	FW-3782-4	000	1.5	---	P4	C	4700	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	1.2	---	P4	D	3000	TRIODE SECT.
6AB9	6.3	FW-9781-0	100	1.5	---	P4	C	4400	TETRODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-3124-0	000	1.5	---	P4	C	4400	TETRODE NO.2
6AC9	6.3	BU-9328-7	234	1.0	---	P4	C	4400	PENTODE SECT.
	6.3	BS-0304-0	002	0.0	18	P1	G		DIODE NO.1 NOTE 3
	6.3	BU-0203-0	004	0.0	18	P1	G		DIODE NO.2 NOTE 3
6AC10	6.3	BT-9204-0	203	1.0	---	P4	C	3450	TRIODE NO.1
	6.3	BS-7506-0	002	1.0	---	P4	C	3450	TRIODE NO.2
	6.3	BV-4203-0	045	1.0	---	P4	C	3450	TRIODE NO.3
6AD10	6.3	BU-3762-5	004	1.8	---	P4	D	1200	PENTODE NO.1
	6.3	BU-8329-0	234	0.6	---	P4	C	3900	PENTODE NO.2
6AF9	6.3	FW-8197-0	100	2.2	---	P4	C	6300	PENTODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-1432-0	000	1.0	---	P4	C	5300	PENTODE NO.2
6AF11	6.3	BV-4239-0	345	1.6	---	P4	C	4500	PENTODE SECT.
	6.3	BS-6805-0	002	1.1	---	P4	C	2800	TRIODE NO.1
	6.3	BS-3407-0	002	0.7	---	P4	C	1700	TRIODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	CA5	BIAS	SHUNT	PUSH	MIN. MUT	COND	NOTATIONS
6AG9	6.3	BW-5239-4	356	2.0	---	P4	C	6300	PENTODE SECT.
	6.3	BS-5706-0	002	2.0	---	P4	D	2900	TRIODE SECT.
6AG11	6.3	BS-5604-0	002	1.0	---	P4	C	4900	TRIODE NO.1
	6.3	BS-8709-0	002	1.0	---	P4	C	4900	TRIODE NO.2
	6.3	BU-0203-0	234	0.0	0	P1	G		DIODE NO.1 NOTE 3
	6.3	BU-0302-0	004	0.0	0	P1	G		DIODE NO.2 NOTE 3
6AH9	6.3	BT-5287-9	023	01.2		P4	C	7500	PENTODE SECT.
	6.3	BV-2304-0	005	04.3		P4	E	1550	TRIODE SECT.
6AK9	6.3	BS-8597-0	002	07.5		P4	C	4400	PENTODE SECT.
	6.3	BU-2307-0	234	01.8		P4	E	1650	TRIODE NO.1
	6.3	BU-3207-0	004	04.0		P4	E	1118	TRIODE NO.2
6AL11	6.3	BU-8329-0	234	2.2	---	P4	C	3500	PENTODE NO.1
	6.3	BV-3672-4	005	3.0	---	P4	E	525	PENTODE NO.2
6AR11	6.3	BU-2893-7	234	0.2	---	P4	C	5600	PENTODE NO.1
	6.3	BX-5236-4	007	0.2	---	P4	C	5600	PENTODE NO.2
6AS11	6.3	BV-4239-0	345	1.8	---	P4	C	4700	PENTODE SECT.
	6.3	BS-6805-0	002	0.6	---	P4	D	2700	TRIODE NO.1
	6.3	BS-3407-0	002	1.4	---	P4	D	2700	TRIODE NO.2
6AV11	6.3	BT-9204-0	203	3.0	---	P4	E	1600	TRIODE NO.1
	6.3	BS-7506-0	002	3.0	---	P4	E	1600	TRIODE NO.2
	6.3	BV-4203-0	045	3.0	---	P4	E	1600	TRIODE NO.3
6AX3	6.3	BS-0407-0	002	0.0	89	P3	G		NOTE 3
6AY3	6.3	EV-0209-0	000	0.0	87	P3	G		NOTE 3
6AY11	6.3	BS-8709-0	002	1.3	---	P4	D	1100	TRIODE NO.1
	6.3	BS-5604-0	002	1.3	---	P4	D	1100	TRIODE NO.2
	6.3	BU-0203-0	234	0.0	0	P1	G		DIODE NO.1 NOTE 3
	6.3	BU-0302-0	004	0.0	0	P1	G		DIODE NO.2 NOTE 3
6B10	6.3	BS-5607-0	002	3.0	---	P4	D	1600	TRIODE NO.1
	6.3	BV-3402-0	005	3.0	---	P4	D	1600	TRIODE NO.2
	6.3	BT-0209-0	203	0.0	0	P1	G		DIODE NO.1 NOTE 3
	6.3	BS-0809-0	002	0.0	0	P1	G		DIODE NO.2 NOTE 3
6BA3	6.3	EV-0209-0	000	0.0	86	P3	G		NOTE 3
6BA11	6.3	BS-4638-7	002	1.0	---	P4	D	500	PENTODE NO.1
	6.3	BW-4238-5	006	1.0	---	P4	D	500	PENTODE NO.2
	6.3	BU-9302-0	234	4.8	---	P4	D	1250	TRIODE SECT.
6BD11	6.3	BV-4239-0	345	1.8	---	P4	C	4000	PENTODE SECT.
	6.3	BS-6805-0	002	1.0	---	P4	C	3500	TRIODE NO.1
	6.3	BS-3407-0	002	0.8	---	P4	D	3000	TRIODE NO.2
6BE3	6.3	BT-0207-0	203	0.0	91	P3	G		NOTE 3
6BF11	6.3	BU-8329-0	234	6.4	---	P4	C	3900	PENTODE NO.1
	6.3	BU-3762-5	004	2.2	---	P4	E	375	PENTODE NO.2
6BH3	6.3	EV-0209-0	000	0.0	87	P3	G		NOTE 3
6BH11	6.3	BU-8293-0	234	0.6	---	P4	C	3800	PENTODE SECT.
	6.3	BS-6705-0	002	1.0	---	P4	C	5700	TRIODE NO.1
	6.3	BV-4302-0	005	1.0	---	P4	C	5700	TRIODE NO.2
6BJ3	6.3	BT-0207-0	203	0.0	90	P3	G		NOTE 3
6BK11	6.3	BT-9204-0	203	2.6	---	P4	E	450	TRIODE NO.1
	6.3	BS-7506-0	002	2.2	---	P4	E	350	TRIODE NO.2
	6.3	BV-4203-0	045	2.2	---	P4	E	350	TRIODE NO.3
6BN11	6.3	BU-7398-2	234	1.0	---	P4	C	4100	PENTODE NO.1
	6.3	BX-3542-6	007	1.0	---	P4	C	4100	PENTODE NO.2
6BS3	6.3	EV-0209-0	000	0.0	85	P3	G		NOTE 3
6BV11	6.3	BU-7298-3	234	2.0	---	P4	D	1600	PENTODE NO.1
	6.3	BX-6345-2	007	2.0	---	P4	D	1600	PENTODE NO.2
6BW11	6.3	BU-3892-7	234	01.0		P4	C	4900	PENTODE NO.1
	6.3	BX-3542-6	007	0.6		P4	C	6950	PENTODE NO.2
6BZ3	6.3	BT-0207-0	203	0.0	91	P3	G		NOTE 3
6C9	6.3	EV-7986-0	000	2.6	---	P4	D	2900	TETRODE NO.1
	6.3	EV-1326-0	600	2.6	---	P4	D	2900	TETRODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	PUSH	MIN. MUT COND	NOTATIONS
6C10	6.3	BT-9204-0	203	1.3	---	P4	D 875	TRIODE NO.1
	6.3	BS-7506-0	002	1.3	---	P4	D 875	TRIODE NO.2
	6.3	BV-4203-0	045	1.3	---	P4	D 875	TRIODE NO.3
6CA11	6.3	BU-8329-7	234	02.5		P4	C 5800	PENTODE SECT.
	6.3	BS-6405-0	002	02.0		P4	D 2000	TRIODE NO.1
	6.3	BU-3207-0	004	02.0		P4	D 2500	TRIODE NO.2
6CD3	6.3	BT-0207-0	203	0.0	90	P3	G	NOTE 3
6CE3	6.3	BS-0407-0	002	0.0	91	P3	G	NOTE 3
6CG3	6.3	BS-0407-0	002	0.0	90	P3	G	NOTE 3
6CH3	6.3	EV-0209-0	000	0.0	91	P3	G	NOTE 3
6CJ3	6.3	EV-0209-0	000	0.0	90	P3	G	NOTE 3
6CK3	6.3	EV-0209-0	000	0.0	91	P3	G	NOTE 3
6CL3	6.3	EV-0209-0	000	0.0	91	P3	G	NOTE 3
6CM3	6.3	EV-0279-0	000	0.0	91	P3	G	SHORT ON POS.4 NOTE 3
6CW4	6.3	BT-4208-0	103	0.5	---	P4	C 5000	PLATE VOLTS=LOW
6D10	6.3	BT-9204-0	203	1.4	---	P4	D 2500	TRIODE NO.1
	6.3	BS-7506-0	002	1.4	---	P4	D 2500	TRIODE NO.2
	6.3	BV-4203-0	045	1.4	---	P4	D 2500	TRIODE NO.3
6DS4	6.3	BT-4208-0	103	0.4	---	P4	C 4700	PLATE VOLTS=LOW
6DV4	6.3	CT-6107-0	203	1.0	---	P4	C 7500	PLATE VOLTS=LOW
6DW4	6.3	EV-0209-0	000	0.0	82	P3	G	NOTE 3
6EA4	6.3	BS-0605-0	002	0.0	---	P1	E	CAP=G ON ADAPTER NOTE 3
6EF4	6.3	BS-0605-9	002	0.0	---	P1	E	CAP=G ON ADAPTER NOTE 3
6EH4	6.3	BS-0605-0	002	0.0		P1	E	CAP=G ON ADAPTER. NOTE 3
6EJ4	6.3	BS-0605-9	002	0.0		P1	E	CAP=G ON ADAPTER. NOTE 3
6FJ7	6.3	BU-2309-0	234	3.0	---	P4	E 1500	TRIODE NO.1
	6.3	BS-3507-0	002	3.4	---	P4	C 4800	TRIODE NO.2
6FM7	6.3	BU-2309-0	234	2.6	---	P4	E 600	TRIODE NO.1
	6.3	BS-8507-0	002	16.0	---	P4	C 4500	TRIODE NO.2
6FY7	6.3	BU-2309-0	234	1.2	---	P4	D 1050	TRIODE NO.1
	6.3	BS-3507-0	002	12.5	---	P4	C 6900	TRIODE NO.2
6G11	6.3	BU-8329-0	234	1.8	---	P4	D 2700	PENTODE NO.1
	6.3	BV-3672-4	005	3.0	---	P4	E 300	PENTODE NO.2
6GA7	6.3	BS-4735-0	002	12.0	---	P4	D 2600	PENTODE SECT.
	6.3	BT-0208-0	023	0.0	77	P3	G	DIODE SECT. NOTE 3
6GE5	6.3	BV-4723-0	345	15.0	---	P4	C 3500	
6GF5	6.3	BV-4723-0	345	16.0	---	P4	D 3200	
6GF7	6.3	EV-9801-0	000	2.0	---	P4	E 600	TRIODE NO.1
	6.3	EV-2603-0	000	16.0	---	P4	C 5000	TRIODE NO.2
6GJ5	6.3	EV-6073-0	000	6.0	---	--	C 4000	CAP=P ON ADAPTER HOLD DOWN P1, PRESS P4
6GT5	6.3	EV-6973-0	000	6.0	---	--	C 4000	HOLD DOWN P1, PRESS P4
6GV5	6.3	BU-9032-0	234	14.0	---	P4	C 4400	CAP=P ON ADAPTER
6GY5	6.3	BT-5072-0	203	17.0	---	P4	C 4800	CAP=P ON ADAPTER
6HB5	6.3	BV-4723-0	345	3.2	---	P4	C 4250	
6HD5	6.3	BU-3792-0	234	15.0	---	P4	C 4500	
6HE5	6.3	BU-9623-0	234	4.8	---	P4	D 3200	
6HE7	6.3	BT-9528-0	023	15.0	---	P4	C 4700	PENTODE SECT.
	6.3	BT-0204-0	003	0.0	89	P3	G	DIODE SECT. NOTE 3
6HF5	6.3	BU-9032-0	234	21.0	---	P4	C 3900	CAP=P ON ADAPTER
6HJ5	6.3	BV-4792-3	345	16.0	---	P4	C 4500	
6HS5	6.3	BV-2704-3	005	0.0	---	P4	B 9400	
6J9	6.3	EV-7801-0	100	1.2	---	P4	D 3200	TRIODE NO.1
	6.3	EV-9601-0	100	1.2	---	P4	D 3200	TRIODE NO.2
	6.3	EV-2103-0	000	1.2	---	P4	D 3200	TRIODE NO.3
6J10	6.3	BS-7468-5	002	0.0	---	P4	E 250	PENTODE NO.1 PLATE VOLTS=LOW
	6.3	BV-4923-0	045	2.6	---	P4	C 4300	PENTODE NO.2
6J11	6.3	BU-3978-2	234	0.3	---	P4	C 6000	PENTODE NO.1
	6.3	BX-5326-4	007	0.3	---	P4	C 6000	PENTODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	CAS	BIAS	SHUNT	PUSH	MIN. MUT COND	NOTATIONS
6JB6	6.3	EV-2013-8	000	5.3	---	--	C 4400	CAP=P ON ADAPTER HOLD DOWN P1, PRESS P4
6JE6	6.3	EV-2073-8	000	7.0	---	P4	C 5800	CAP=P ON ADAPTER PLATE VOLTS=LOW
6JF6	6.3	EV-2073-8	000	6.0	---	--	C 5900	CAP=P ON ADAPTER HOLD DOWN P1, PRESS P4
6JG6	6.3	EV-2973-6	000	6.0	---	--	C 5900	HOLD DOWN P1, PRESS P4
6JM6	6.3	BW-5032-4	406	12.0	---	P4	C 4100	CAP=P ON ADAPTER
6JN6	6.3	BW-5732-4	056	12.0	---	P4	C 4100	
6JR6	6.3	EV-2913-6	000	21.5		P4	D 2800	
6JS6A	6.3	BW-5032-4	006	25.0	---	P4	C 3150	CAP=P ON ADAPTER
6JT6	6.3	EV-2973-6	000	22.0	---	P4	C 4100	
6JU6	6.3	EV-2013-8	000	21.5	---	P4	D 2800	CAP=P ON ADAPTER
6JZ6	6.3	BW-5032-4	006	16.0	---	P4	C 4400	CAP=P ON ADAPTER
6JZ8	6.3	BS-7489-0	002	7.8	---	P4	D 3200	PENTODE SECT.
	6.3	BV-3204-0	345	5.2	---	P4	E 880	TRIODE SECT.
6K11	6.3	BT-9204-8	203	3.2	---	P4	D 1950	TRIODE NO.1
	6.3	BS-7506-8	002	1.3	---	P4	E 800	TRIODE NO.2
	6.3	BV-4203-8	045	1.3	---	P4	E 800	TRIODE NO.3
6KD6	6.3	BW-5032-4	006	20.0	---	P4	C 4700	CAP=P ON ADAPTER
6KM6	6.3	EV-2073-8	000	20.0	---	P4	C 3000	CAP=P ON ADAPTER
6KN6	6.3	BW-5032-4	006	19.0	---	P4	C 4400	CAP=P ON ADAPTER
6KY8	6.3	EV-2673-0	000	10.0	---	P4	C 3450	PENTODE SECT.
	6.3	EV-9801-0	000	1.4	---	P4	D 1150	TRIODE SECT.
6LB6	6.3	BW-5032-4	006	08.0		P4	C 6300	CAP=P. PLATE VOLTS=LOW.
6LF6	6.3	BW-5032-4	006	23.0		P4	C 5200	CAP=P ON ADAPTER.
6LG6	6.3	BT-5024-0	023	20.0		P4	C 5650	CAP=P ON ADAPTER.
6LR6	6.3	BW-5032-4	006	25.0		P4	C 4250	CAP=P ON ADAPTER.
6LR8	6.3	EV-2673-0	000	10.0	---	P4	C 3500	PENTODE SECT.
	6.3	EV-9801-0	000	3.6	---	P4	E 650	TRIODE SECT.
6LU8	6.3	BS-6489-0	002	10.0	---	P4	C 3500	PENTODE SECT.
	6.3	BV-3204-0	345	3.6	---	P4	E 650	TRIODE SECT.
6M11	6.3	BW-2534-0	456	0.6	---	P4	C 5750	PENTODE SECT.
	6.3	BS-8709-0	002	1.1	---	P4	C 3850	TRIODE NO.1
	6.3	BS-5604-0	002	1.1	---	P4	C 3850	TRIODE NO.2
6MD8	6.3	EV-6307-0	000	4.0	---	P4	D 2300	TRIODE NO.1
	6.3	EV-8207-0	000	4.0	---	P4	D 2300	TRIODE NO.2
	6.3	EV-9107-0	000	4.0	---	P4	D 2300	TRIODE NO.3
6MF8	6.3	BS-7489-0	002	4.0	---	P4	C 3100	PENTODE SECT.
	6.3	BV-3204-0	345	2.4	---	P4	D 3800	TRIODE SECT.
6MJ8	6.3	BV-4203-0	045	03.2		P4	D 2680	TRIODE NO.1.
	6.3	BV-2403-0	205	03.2		P4	D 2680	TRIODE NO.2.
	6.3	BS-8603-0	002	03.2		P4	D 2680	TRIODE NO. 3.
6MN8	6.3	BS-8603-0	002	01.0		P4	C 1400	TRIODE NO.1
	6.3	BV-2403-0	205	01.0		P4	C 1400	TRIODE NO.2
	6.3	BV-4203-0	045	01.0		P4	C 1400	TRIODE NO.3
6N-H10	6.3	BT-4208-0	103	02.0		P4	D 1700	
6N-L7	6.3	BT-4208-0	103	09.0		P4	E 1150	PLATE VOLTS=LOW.
6Q11	6.3	BT-9204-8	203	3.2	---	P4	D 1950	TRIODE NO.1
	6.3	BS-7506-8	002	1.3	---	P4	E 800	TRIODE NO.2
	6.3	BV-4203-8	045	1.3	---	P4	E 800	TRIODE NO.3
6T9	6.3	BU-8329-0	234	2.4	---	P4	C 3300	PENTODE SECT.
	6.3	BT-4205-0	003	0.8	---	P4	D 1625	TRIODE SECT.
6T10	6.3	BU-8329-0	234	2.2	---	P4	C 3800	PENTODE NO.1
	6.3	BU-3762-5	004	1.6	---	P4	E 380	PENTODE NO.2
6U9	6.3	FW-3782-4	000	1.5	---	P4	C 4400	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	4.5	---	P4	C 3150	TRIODE SECT.

TUBE TYPE	FIL.	SELECTORS TESTER	CAS	BIAS	SHUNT	PUSH	MIN. MUT COND	NOTATIONS
6U10	6.3	BT-9204-0	203	3.8	---	P4	E 1225	TRIODE NO.1
	6.3	BS-7506-0	002	2.2	---	P4	E 375	TRIODE NO.2
	6.3	BV-4203-0	045	3.8	---	P4	E 1225	TRIODE NO.3
6V9	6.3	FW-3741-2	000	1.0	---	--	E 700	HEPTODE SECT. HOLD DOWN P1 AND PRESS P4. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-8109-0	100	2.4	---	P4	C 3150	TRIODE SECT.
6X9	6.3	FW-3782-4	000	1.5	---	P4	C 4700	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-2901-0	200	1.2	---	P4	D 3000	TRIODE SECT.
6Y9	6.3	FW-8197-0	100	2.2	---	P4	C 6300	PENTODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-1432-0	000	1.0	---	P4	C 5300	PENTODE NO.2
6Y10	6.3	BU-8329-0	234	2.7	---	P4	D 3300	PENTODE NO.1
	6.3	BU-3762-5	004	1.5	---	P4	E 900	PENTODE NO.2
6Z10	6.3	BS-7468-5	002	0.0	---	P4	E 250	PENTODE NO.1 PLATE VOLTS=LOW
	6.3	BV-4923-0	045	2.6	---	P4	C 4300	PENTODE NO.2
8AC9	7.5	BU-9328-7	234	1.0	---	P4	C 4400	PENTODE SECT.
	7.5	BS-0304-0	002	0.0	18	P1	G	DIODE NO.1 NOTE 3
	7.5	BU-0203-0	004	0.0	18	P1	G	DIODE NO.2 NOTE 3
8AC10	10.0	BT-9204-0	203	01.0		P4	C 2850	TRIODE NO.1 SET =POWER ADJUST= AT 89V
	10.0	BS-7506-0	002	01.0		P4	C 2850	TRIODE NO.2
	10.0	BV-4203-0	045	01.0		P4	C 2850	TRIODE NO.3
8AR11	7.5	BU-2893-7	234	0.2	---	P4	C 5600	PENTODE NO.1
	7.5	BX-5236-4	007	0.2	---	P4	C 5600	PENTODE NO.2
8B10	7.5	BS-5607-0	002	4.4	---	P4	D 1700	TRIODE NO.1 SET POWER ADJUST TO 114V.
	7.5	BV-3402-0	005	4.4	---	P4	D 1700	TRIODE NO.2
	7.5	BT-0209-0	203	0.0	0	P1	G	DIODE NO.1 NOTE 3
	7.5	BS-0809-0	002	0.0	0	P1	G	DIODE NO.2 NOTE 3
8BA11	7.5	BS-4638-7	002	1.0	---	P4	D 500	PENTODE NO.1
	7.5	BW-4238-5	006	1.0	---	P4	D 500	PENTODE NO.2
	7.5	BU-9302-0	234	4.8	---	P4	D 1250	TRIODE SECT.
8BM11	7.5	BU-3792-8	234	1.0	---	P4	C 3800	PENTODE NO.1
	7.5	BX-6235-4	007	1.2	---	P4	C 3500	PENTODE NO.2
8BN11	7.5	BU-7398-2	234	1.0	---	P4	C 4100	PENTODE NO.1
	7.5	BX-3542-6	007	1.0	---	P4	C 4100	PENTODE NO.2
8BQ11	7.5	BU-2893-7	234	0.0	---	P4	C 6300	PENTODE NO.1
	7.5	BX-5236-4	007	0.4	---	P4	C 6500	PENTODE NO.2
8BU11	7.5	BU-8293-0	234	1.0	---	P4	D 3000	PENTODE SECT.
	7.5	BS-6705-0	002	1.6	---	P4	C 4000	TRIODE NO.1
	7.5	BV-4302-0	005	1.6	---	P4	C 4000	TRIODE NO.2
8U9	7.5	FW-3782-4	000	1.5	---	P4	C 4400	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	7.5	FW-2901-0	200	4.5	---	P4	C 3150	TRIODE SECT.
8X9	7.5	FW-3782-4	000	1.5	---	P4	C 4700	PENTODE SECT. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	7.5	FW-2901-0	200	1.2	---	P4	D 3000	TRIODE SECT.
9BJ11	10.0	BU-3792-8	234	1.0	---	P4	D 1650	PENTODE NO.1
	10.0	BX-6235-4	007	1.0	---	P4	C 4400	PENTODE NO.2
9V9	10.0	FW-3741-2	000	1.0	---	--	E 700	HEPTODE SECT. HOLD DOWN P1 AND PRESS P4. USE HICKOK ADAPTER SA-11 CODE NO.1050-177
	10.0	FW-8109-0	100	2.4	---	P4	C 3150	TRIODE SECT.

TUBE TYPE	FIL.	SELECTORS TESTER	CAS	BIAS	SHUNT	PUSH	MIN. MUT COND	NOTATIONS
10AL11	10.0	BU-8329-0	Z34	2.2	----	P4	C 3500	PENTODE NO.1
	10.0	BV-3672-4	005	3.0	----	P4	E 525	PENTODE NO.2
10GF7	10.0	EV-9801-0	000	2.0	----	P4	E 600	TRIODE NO.1
	10.0	EV-2603-0	000	16.0	----	P4	C 5000	TRIODE NO.2
10J10	10.0	BS-7468-5	002	0.0	----	P4	E 250	PENTODE NO.1
								PLATE VOLTS=LOW
	10.0	BV-4923-0	045	2.6	----	P4	C 4300	PENTODE NO.2
11AR11	12.6	BU-2893-7	Z34	0.2	----	P4	C 5300	PENTODE NO.1. SET POWER ADJUST TO 91V.
	12.6	BX-5236-4	007	0.2	----	P4	C 5300	PENTODE NO.2
11BQ11	12.6	BU-2893-7	Z34	0.6	----	P4	C 4400	PENTODE NO.1. KEEP POWER ADJUST AT 90V.
	12.6	BX-5236-4	007	0.6	----	P4	C 5000	PENTODE NO.2
11BT11	10.0	BV-4238-6	345	1.0	----	P4	B 9500	PENTODE SECT.
	10.0	BS-5706-0	002	0.8	----	P4	D 3500	TRIODE NO.1
	10.0	BS-3904-0	002	2.0	----	P4	D 3600	TRIODE NO.2
11CA11	10.0	BU-8329-7	Z34	02.5		P4	C 5800	PENTODE SECTION
	10.0	BS-8405-0	002	02.0		P4	C 2000	TRIODE NO.1
	10.0	BU-3207-0	004	02.0		P4	C 2500	TRIODE NO.2
11FV7	10.0	BU-2309-0	Z34	1.2	----	P4	D 1050	TRIODE NO.1
	10.0	BS-3507-0	002	12.5	----	P4	C 6900	TRIODE NO.2
11Y9	10.0	FW-8197-0	100	2.2	----	P4	C 6300	PENTODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	10.0	FW-1432-0	000	1.0	----	P4	C 5300	PENTODE NO.2
12AE10	12.6	BU-8329-0	Z34	5.8	----	P4	D 1900	PENTODE NO.1
	12.6	BU-3762-5	004	3.0	----	P4	E 1000	PENTODE NO.2
12AL11	12.6	BU-8329-0	Z34	2.2	----	P4	C 3500	PENTODE NO.1
	12.6	BV-3672-4	005	3.0	----	P4	E 525	PENTODE NO.2
12AN3	12.6	BS-0407-0	002	0.0	89	P3	G	NOTE 3
12AY3	12.6	EV-0209-0	000	0.0	87	P3	G	NOTE 3
12BE3	12.6	BT-0207-0	Z03	0.0	91	P3	G	NOTE 0
12BF11	12.6	BU-8329-0	Z34	6.4	----	P4	C 3900	PENTODE NO.1
	12.6	BU-3762-5	004	2.2	----	P4	E 375	PENTODE NO.2
12BS3	12.6	EV-0209-0	000	0.0	85	P3	G	NOTE 3
12BT3	12.6	BS-0407-0	002	0.0	90	P3	G	NOTE 3
12BV11	12.6	BU-7298-3	Z34	2.0	----	P4	D 1600	PENTODE NO.1
	12.6	BX-6345-2	007	2.0	----	P4	D 1600	PENTODE NO.2
12CX3	12.6	EV-0209-0	000	0.0	91	P3	G	NOTE 3
12CL3	12.6	EV-0209-0	000	0.0	91	P3	G	NOTE 3
12DW4A	12.6	EV-0209-0	000	0.0	82	P3	G	NOTE 3.
12GU1	12.6	BU-8329-0	Z34	1.8	----	P4	D 2700	PENTODE NO.1
	12.6	BV-3672-4	005	3.0	----	P4	E 300	PENTODE NO.2
12GE5	12.6	BV-4723-0	345	15.0	----	P4	C 3500	
12GJ5	12.6	EV-6073-0	000	6.0	----	---	C 4000	CAP=P ON ADAPTER. HOLD DOWN P1 AND PRESS P4
12GT5	12.6	EV-6973-0	000	6.0	----	---	C 4000	HOLD DOWN P1, PRESS P4
12GW5	12.6	BU-9032-0	Z34	14.0	----	P4	C 4400	CAP=P ON ADAPTER
12HE7	12.6	BT-9528-0	023	15.0	----	P4	C 4700	PENTODE SECT.
	12.6	BT-0204-0	003	0.0	89	P3	G	DIODE SECT. NOTE 3
12J8A	12.6	EV-2013-8	000	5.3	----	---	C 4400	CAP=P ON ADAPTER. HOLD DOWN P1 AND PRESS P4
12JM6	12.6	BW-5732-4	056	12.0		P4	C 4100	
12JN6	12.6	BW-5732-4	056	12.0	----	P4	C 4100	
12JS6A	12.6	BW-5032-4	006	25.0	----	P4	C 3150	CAP=P ON ADAPTER
12JT6	12.6	EV-2973-6	000	22.0	----	P4	C 4100	
12M08	12.6	EV-6307-0	000	4.0	----	P4	D 2300	TRIODE NO.1
	12.6	EV-8207-0	000	4.0	----	P4	D 2300	TRIODE NO.2
	12.6	EV-9107-0	000	4.0	----	P4	D 2300	TRIODE NO.3
12T10	12.6	BU-8329-0	Z34	2.2	----	P4	C 3800	PENTODE NO.1
	12.6	BU-3762-5	004	1.6	----	P4	E 380	PENTODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	PUSH	MIN. MUT COND	NOTATIONS
13CW4	12.6	BT-4208-0	103	0.5	---	P4	C 5000	PLATE VOLTS=LOW
13FM7	12.6	BU-2309-0	234	2.6	---	P4	E 600	TRIODE NO.1
	12.6	BS-8507-0	002	16.0	---	P4	C 4500	TRIODE NO.2
13GF7	12.6	EV-9801-0	000	2.0	---	P4	E 600	TRIODE NO.1
	12.6	EV-2603-0	000	16.0	---	P4	C 5000	TRIODE NO.2
13J10	12.6	BS-7468-5	002	0.0	---	P4	E 250	PENTODE NO.1.
	12.6	BV-4923-0	045	2.6	---	P4	C 4300	PENTODE NO.2
13JZ8	12.6	BS-7489-0	002	07.8		P4	D 3200	PENTODE SECT.
	12.6	BV-3204-0	345	05.2		P4	E 880	TRIODE SECT.
13V10	12.6	BU-8329-0	234	3.4	---	P4	C 3100	PENTODE NO.1
	12.6	BU-3762-5	004	2.8	---	P4	E 440	PENTODE NO.2
13Z10	12.6	BS-7468-5	002	0.0	---	P4	E 250	PENTODE NO.1. PLATE VOLTS=LOW
	12.6	BV-4923-0	045	2.6	---	P4	C 4300	PENTODE NO.2
14BL11	12.6	BV-4238-0	345	1.4	---	P4	C 7500	PENTODE SECT.
	12.6	BS-5706-0	002	0.6	---	P4	C 3800	TRIODE NO.1
	12.6	BS-3904-0	002	2.0	---	P4	C 4400	TRIODE NO.2
14BR11	12.6	BW-2534-0	056	0.5	---	P4	C 4700	PENTODE SECT.
	12.6	BS-8605-0	002	1.0	---	P4	C 3900	TRIODE NO.1
	12.6	BT-2907-0	203	1.0	---	P4	C 3100	TRIODE NO.2
15AB9	17.0	FW-9781-0	100	01.5		P4	C 3500	TETRODE NO.1 USE HICKOK ADAPTER SA-11 CODE NO. 1050-177 SET =POWER ADJUST= AT 85V
	17.0	FW-3124-0	000	01.5		P4	C 3500	TETRODE NO.2 USE HICKOK ADAPTER SA-11 CODE NO. 1050-177 SET =POWER ADJUST= AT 85V
15AF11	12.6	BV-4239-0	345	2.0	---	P4	C 5600	PENT. SECT.)SET=POWER
	12.6	BS-6805-0	002	1.2	---	P4	C 4400	TRIODE NO.1)ADJUST=
	12.6	BS-3407-0	002	1.5	---	P4	D 3100	TRIODE NO.2)AT 118V
15BD11	12.6	BV-4239-0	345	2.8	---	P4	C 4000	PENT.SECT.)SET=POWER
	12.6	BS-6805-0	002	1.1	---	P4	C 3500	TRIODE NO.1)ADJUST=
	12.6	BS-3407-0	002	2.0	---	P4	D 3000	TRIODE NO.2)AT 112V.
15FM7	12.6	BU-2309-0	234	3.4	---	P4	E 600	TRIODE NO.1)SET=POWER
	12.6	BS-8507-0	002	21.0	---	P4	C 4500	TRIODE NO.2)ADJUST=AT 112V.
15FY7	12.6	BU-2309-0	234	2.8	---	P4	E 440	TRIODE NO.1)SET=POWER
	12.6	BS-3507-0	002	30.0	---	P4	C 6700	TRIODE NO.2)ADJUST AT 118V.
15KY8	20.0	EV-2673-0	000	3.6	---	P4	D 2500	PENT.SECT.)SET =POWER
	20.0	EV-9801-0	000	0.2	---	P4	E 570	TRIODE SECT.)ADJUST AT 175V.
16AK9	20.0	BS-8597-0	002	03.3		P4	D 3240	PENTODE SECT. SET =POWER ADJUST= AT 86V.
	20.0	BU-2307-0	234	01.1		P4	D 2500	TRIODE NO.1.
	20.0	BU-3207-0	004	03.2		P4	E 1290	TRIODE NO.2.
16GY5	20.0	BU-9032-0	234	18.0	---	P4	C 3900	CAP=P ON ADAPTER. SET =POWER ADJUST= AT80V
16KA6	20.0	BW-5032-4	206	17.0	---	P4	C 4100	CAP=P ON ADAPTER SET=POWER ADJUST=AT 84V.
16Y9	20.0	FW-8197-0	100	1.4	---	P4	C 6300	PENTODE NO.1. SET =POWER ADJUST= AT 90V. USE HICKOK ADAPTER SA-11 CODE NO.1050-177
	20.0	FW-1432-0	000	0.5	---	P4	C 5300	PENTODE NO.2
17AB9	20.0	FW-9781-0	100	1.5	---	P4	C 3500	TETRODE NO.1. SET =POWER ADJUST= AT 85V. USE HICKOK ADAPTER SA-11 CODE NO.1050-177
	20.0	FW-3124-0	000	1.5	---	P4	C 3500	TETRODE NO.2

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	PUSH	MIN. MUT COND	NOTATIONS
17AB10	20.0	BS-7468-5	002	0.0	---	P4	E 250	LIMITER GRID. PLATE VOLTS=LOW SET =CATHODE ACTIVITY= SWITCH TO TEST POS.
	20.0	BS-5468-7	002	0.8	---	P4	D 575	QUADRATURE GRID PLATE VOLTS=LOW SET =CATHODE ACTIVITY= SWITCH TO TEST POS.
	20.0	BV-4923-0	045	8.0	---	P4	C 3100	PENT. NO.2
17AB10	20.0	BV-4923-0	045	8.0	---	P4	C 3100	PENT. NO.2
17AX3	20.0	BS-0407-0	002	0.0	88	P3	G	SET =POWER ADJUST= AT 90V. NOTE 3
17AY3	20.0	EV-0209-0	000.	0.0	84	P3	G	SET =POWER ADJUST= AT 84V. NOTE 3
17BE3	20.0	BT-0207-0	203	0.0	90	P3	G	SET =POWER ADJUST= AT 90V. NOTE 3
17BF11	20.0	BU-8329-0	234	4.8	---	P4	C 3900	PENTODE NO.1)SET=POWER
	20.0	BU-3762-5	004	1.2	---	P4	E 375	PENTODE NO.2)ADJUST=AT)90V.
17BH3	20.0	EV-0209-0	000	0.0	84	P3	G	SET POWER ADJUST AT 84V. NOTE 3
17BS3	20.0	EV-0209-0	000	0.0	80	P3	G	SET =POWER ADJUST= AT 84V. NOTE 3
17BZ3	20.0	BT-0207-0	203	0.0	91	P3	G	KEEP POWER ADJUST AT 86V NOTE 3
17C9	20.0	EV-7986-0	000	1.2	---	P4	D 2500	TETRODE NO.1)SET=POWER
	20.0	EV-1326-0	600	1.2	---	P4	D 2500	TETRODE NO.2)ADJUST=AT)80V.
17CK3	20.0	EV-0209-0	000	0.0	90	P3	G	SET =POWER ADJUST= AT 90V. NOTE 3
17CL3	20.0	EV-0209-0	000	0.0	90	P3	G	SET =POWER ADJUST= AT 90V. NOTE 3
17DW4A	20.0	EV-0209-0	000	0.0	90	P3	G	SET =POWER ADJUST= AT 90V. NOTE 3.
17GE5	20.0	BV-4723-0	345	2.0	---	--	C 4700	HOLD DOWN P1, PRESS P4. SET=POWER ADJUST=AT 85V.
17GJ5	20.0	EV-6073-0	000	5.3	---	--	C 4400	CAP=P ON ADAPTER. HOLD DOWN P1, PRESS P4. SET=POWER ADJUST= AT 94V
17GT5	20.0	EV-6973-0	000	5.3	---	--	C 4400	HOLD DOWN P1, PRESS P4. SET=POWER ADJUST=AT 94V.
17GV5	20.0	BU-9032-0	234	14.0	---	--	C 4600	CAP=P ON ADAPTER. HOLD DOWN P1, PRESS P4. SET=POWER ADJUST=AT 85V.
17JB6	20.0	EV-2013-8	000	5.3	---	--	C 4400	CAP=P ON ADAPTER. HOLD DOWN P1, PRESS P4. SET=POWER ADJUST=AT 94V.
17JG6A	20.0	EV-2973-6	000	6.0	---	--	C 5900	HOLD DOWN P1, PRESS P4. KEEP POWER ADJUST AT 84V
17JM6	20.0	BW-5032-4	406	12.0	---	P4	C 4100	CAP=P ON ADAPTER. SET =CATHODE ACTIVITY= SWITCH TO TEST POS.
17JN6	20.0	BW-5732-4	056	12.0	---	P4	C 4100	SET=CATHODE ACTIVITY= SWITCH TO TEST POS.
17JT6	20.0	EV-2973-6	000	22.0	---	P4	C 4100	SET =CATHODE ACTIVITY= SWITCH TO TEST POS.
17JZ8	20.0	BS-7489-0	002	7.4	---	P4	C 2750	PENTODE SECT)SET=POWER
	20.0	BV-3204-0	345	4.8	---	P4	E 725	TRIODE SECT.)ADJUST AT)89V.

TUBE TYPE	FIL.	SELECTORS TESTER	SELECTORS CAS	BIAS	SHUNT	PUSH	MIN. MUT	MIN. COND	NOTATIONS
17LD8	20.0	EV-2673-0	000	7.5	---	P4	D	2500	PENTODE SECT.)SET=POWER
	20.0	EV-9801-0	000	4.4	---	P4	E	800	TRIODE SECT.)ADJUST= AT 187V.
17X10	20.0	BS-7468-5	002	0.0	---	P4	E	250	LIMITER GRID. PLATE VOLTS =LOW. SET =CATHODE ACTIVITY= SWITCH TO TEST POS.
	20.0	BS-5468-7	002	0.8	---	P4	D	575	QUADRATURE GRID. PLATE VOLTS= LOW. SET =CATHODE ACTIVITY= SWITCH TO TEST POS.
	20.0	BV-4923-0	045	8.0	---	P4	C	3100	PENTODE NO.2
17X10	20.0	BV-4923-0	045	8.0	---	P4	C	3100	PENTODE NO.2
19CG3	20.0	BS-0407-0	002	0.0	90	P3	G		NOTE 3
1909	20.0	EV-1327-6	700	1.4	---	P4	C	2850	PENTODE SECT.
	20.0	EV-8907-6	000	1.4	---	P4	C	4400	TRIODE SECT.
21GY5	20.0	BT-5072-0	203	17.0	---	P4	C	4800	CAP=P ON ADAPTER.
21MB5	20.0	BV-4723-0	345	3.2	---	P4	C	4250	
21MD5	20.0	BU-3792-0	234	15.0	---	P4	C	4500	
21MJ5	20.0	BV-4792-3	345	16.0	---	P4	C	4500	
21JV6	20.0	BW-5732-4	456	15.0	---	P4	C	4700	
21JZ6	20.0	BW-5032-4	006	16.0	---	P4	C	4400	CAP=P ON ADAPTER
21KA6	20.0	BW-5032-4	206	17.0	---	P4	C	4100	CAP=P ON ADAPTER
21LG6	20.0	BT-5024-0	023	20.0		P4	C	5650	CAP=P ON ADAPTER.
21LR8	20.0	EV-2673-0	000	10.0	---	P4	C	3500	PENTODE SECT.
	20.0	EV-9801-0	000	3.6	---	P4	E	650	TRIODE SECT.
21LU8	20.0	BS-6489-0	002	10.0	---	P4	C	3500	PENTODE SECT.
	20.0	BV-3204-0	345	3.6	---	P4	E	650	TRIODE SECT.
22BH3	20.0	EV-0209-0	000	0.0	84	P3	G		SET =POWER ADJUST= AT 110V. NOTE 3
22BW3	20.0	BT-0207-0	203	0.0	87	P3	G		SET=POWER ADJUST= AT 90V. NOTE 3
22JF6	20.0	EV-2073-8	000	6.0	---	--	C	5900	CAP=P ON ADAPTER HOLD DOWN P1, PRESS P4.
22JG6	20.0	EV-2973-6	000	6.0	---	--	C	5900	HOLD DOWN P1, PRESS P4.
22JR6	20.0	EV-2913-6	000	21.5		P4	D	2800	
22JU6	20.0	EV-2073-8	000	21.5	---	P4	D	2800	CAP=P ON ADAPTER
22KM6	20.0	EV-2073-8	000	20.0	---	P4	C	3000	CAP=P ON ADAPTER.
23JS6A	25.0	BW-5032-4	006	25.0		P4	C	3150	CAP=P ON ADAPTER.
2329	25.0	BS-8597-0	002	7.0	---	P4	C	3400	PENTODE SECT.
	25.0	BU-2307-0	234	2.0	---	P4	D	2400	TRIODE NO.1
	25.0	BU-3207-0	004	5.0	---	P4	D	1400	TRIODE NO.2
24BF11	25.0	BU-8329-0	234	06.0		P4	C	4700	PENTODE NO.1.
	25.0	BU-3762-5	004	03.4		P4	E	400	PENTODE NO.2.
24GA7	25.0	BS-4735-0	002	12.0	---	P4	D	2600	PENTODE SECT.
	25.0	BT-0208-0	023	0.0	77	P3	G		DIODE SECT. NOTE 3
24JE6A	25.0	EV-2073-8	000	7.0	---	P4	C	5800	CAP=P ON ADAPTER HOLD DOWN P1, PRESS P4. PLATE VOLTS=LOW.
24JZ8	25.0	BS-7489-0	002	09.5		P4	C	4100	PENTODE SECT.
	25.0	BV-3204-0	345	05.2		P4	E	1150	TRIODE SECT.
25CG3	25.0	BS-0407-0	002	0.0	90	P3	G		NOTE 3
25CM3	25.0	EV-0279-0	000	0.0	91	P3	G		SHORT ON PDS.4 NOTE 3
28HD5	25.0	BU-3792-0	234	15.0	---	P4	C	4500	
30AG11	35.0	BS-5604-0	002	0.6	---	P4	C	4900	TRIODE NO.1)SET=POWER
	35.0	BS-8709-0	002	0.6	---	P4	C	4900	TRIODE NO.2)ADJUST=
	35.0	BU-0203-0	234	0.0	0	P1	G		DIODE NO.1)AT 84V.
	35.0	BU-0302-0	004	0.0	0	P1	G		DIODE NO.2)NOTE 3.
30HJ5	25.0	BV-4792-3	345	16.0	---	P4	C	4500	
30KD6	35.0	BW-5032-4	006	15.0		P4	C	9100	CAP=P ON ADAPTER. SET =POWER ADJUST= AT 87V

TUBE TYPE	FIL.	SELECTORS TESTER	CA5	BIAS	SHUNT	PUSH	MIN. MUT COND	NOTATIONS
31JS6A	35.0	BW-5032-4	006	25.0	---	P4	C 3150	CAP=P ON ADAPTER
32GA7	35.0	BS-4735-0	002	12.0	---	P4	D 2600	PENTODE SECT.
	35.0	BT-0208-0	023	0.0	77	P3	G	DIODE SECT. NOTE 3
33GT7	35.0	BU-3528-0	234	5.2	---	--	C 4550	PENTODE SECT. HOLD DOWN P1, PRESS P4.
	35.0	BT-0204-0	003	0.0	90	P3	G	DIODE SECT. NOTE 3
33GY7	35.0	BU-2538-0	234	5.2	---	--	C 4550	PENTODE SECT. HOLD DOWN P1, PRESS P4.
	35.0	BT-0204-0	003	0.0	90	P3	G	DIODE SECT. NOTE 3
33JV6	35.0	BW-5732-4	456	15.0	---	P4	C 4700	
34CD3	35.0	BT-0207-0	203	0.0	90	P3	G	NOTE 3
34CE3	35.0	BS-0407-0	002	0.0	91	P3	G	NOTE 3
34CM3	35.0	EV-0279-0	000	0.0	91	P3	G	SHORT ON POS.4 NOTE 3
35LR6	35.0	BW-5032-4	006	25.0		P4	C 4250	CAP=P ON ADAPTER.
36KD6	35.0	BW-5032-4	006	20.0		P4	C 4700	CAP=P ON ADAPTER.
38HE7	35.0	BT-9528-0	023	36.0	---	P4	C 4100	PENTODE SECT.
	35.0	BT-0204-0	003	0.0	89	P3	G	DIODE SECT. NOTE 3.
38HK7	35.0	BT-9528-0	023	16.0	---	P4	C 4100	PENTODE SECT.
	35.0	BT-0204-0	003	0.0	90	P3	G	DIODE SECT. NOTE 3
40KD6	35.0	BW-5032-4	006	20.0	---	P4	C 4700	CAP=P ON ADAPTER
42KN6	50.0	BW-5032-4	006	32.0	---	P4	C 4400	CAP=P ON ADAPTER KEEP POWER ADJUST AT 92V
53HK7	50.0	BT-9528-0	023	16.0		P4	C 4100	PENTODE SECT.
	50.0	BT-0204-0	003	0.0	90	P3	G	DIODE SECT. NOTE 3.
58HE7	50.0	BT-9528-0	023	15.0	---	P4	C 4700	PENTODE SECT.
	50.0	BT-0204-0	003	0.0	89	P3	G	DIODE SECT.NOTE 3
7586	6.3	BT-4208-0	103	0.8	---	P4	C 7800	PLATE VOLTS=LOW
7587	6.3	BT-4028-0	103	1.0	---	--	C 4100	CAP=P ON ADAPTER HOLD DOWN P1, PRESS P4.
7868	6.3	EV-6973-0	000	2.0	---	P4	C 4750	
7895	6.3	BT-4208-0	103	1.8	---	P4	C 5000	
7984	12.6	BV-2349-0	245	12.0	---	P4	D 3200	
8056	6.3	BT-4208-0	103	0.0	0	P1	G	OK ABOVE 750 ON 3000 SCALE. NOTE 3 MAKE NO GAS TEST.
8058	6.3	BS-0008-0	102	1.0	---	P4	C 6500	CAP=P, SHELL=G ON ADAPT.
8149	12.6	BT-2789-0	203	13.0	---	P4	D 3100	
8150	12.6	BT-2086-0	203	13.0	---	P4	D 3100	CAP=P ON ADAPTER
8156	12.6	BU-2376-0	204	9.0	---	P4	D 3600	
8203	6.3	BT-4208-0	103	3.4	---	P4	C 3450	
8393	12.6	BT-4208-0	103	2.8	---	P4	C 5000	
8458	12.6	EV-3872-0	000	08.0		P4	D 2100	TETRODE 1. NOTE 8#1-,2+
	12.6	EV-1672-0	000	08.0		P4	D 2100	TETRODE 2. NOTE 8#3-,2+
8628	6.3	BT-4208-0	103	1.0	---	P4	D 1200	
ECC2000	6.3	FW-8709-1	000	2.8	---	P4	B 9500	TRIODE NO.1. USE HICKOK ADAPTER SA-11 CODE NO. 1050-177
	6.3	FW-3402-1	400	2.8	---	P4	B 9500	TRIODE NO.2
H-1112	2.0	BT-4028-0	103	01.0			C 4100	CAP=P ON ADAPTER. HOLD DOWN P1, PRESS P4.
H-1208	6.3	BT-4208-0	103	0.8		P4	C 7800	PLATE VOLTS=LOW.
N30EL	6.3	BW-5032-4	006	23.0		P4	C 5200	CAP=P ON ADAPTER.